

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P562623

Luminaire Tested: **SQ4-PC3-050U-050D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562623
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-050U-050D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

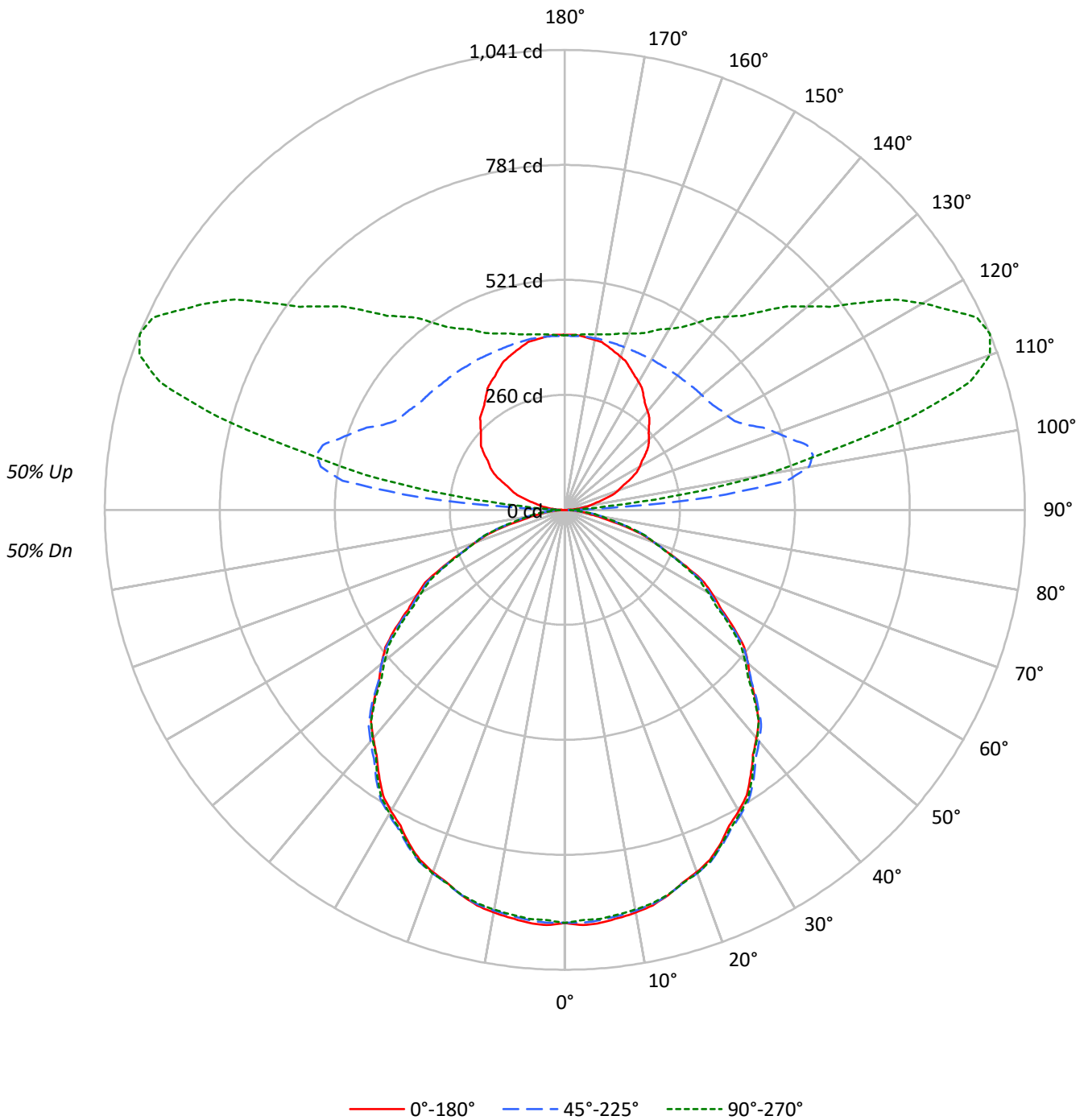
Lumens per Lamp: N/A
Luminaire Lumens: 5136.4 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 44.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	51	48	44	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	39	36	34	30
4	74	63	56	49	68	59	52	46	50	45	41	42	38	35	34	32	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	19	22	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5751	5751	5751
5°	5795	5757	5736
10°	5780	5754	5737
15°	5750	5750	5744
20°	5712	5729	5729
25°	5658	5699	5682
30°	5590	5657	5633
35°	5506	5591	5552
40°	5415	5492	5436
45°	5317	5355	5271
50°	5178	5178	5095
55°	5013	4949	4874
60°	4772	4676	4601
65°	4410	4323	4285
70°	3861	3892	3877
75°	3106	3436	3458
80°	2207	2912	2943
85°	1341	2442	2442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	1.7
10°-20°	253.9	4.9
20°-30°	384.6	7.5
30°-40°	461.0	9.0
40°-50°	470.1	9.2
50°-60°	410.4	8.0
60°-70°	293.8	5.7
70°-80°	151.3	2.9
80°-90°	39.8	0.8
90°-100°	189.9	3.7
100°-110°	515.9	10.0
110°-120°	530.4	10.3
120°-130°	424.1	8.3
130°-140°	333.2	6.5
140°-150°	255.5	5.0
150°-160°	183.7	3.6
160°-170°	112.4	2.2
170°-180°	37.9	0.7
0°-30°	727.0	14.2
0°-40°	1188.1	23.1
0°-60°	2068.5	40.3
0°-90°	2553.4	49.7
90°-120°	1236.2	24.1
90°-150°	2249.0	43.8
90°-180°	2583.0	50.3
0°-180°	5136.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	935	935	935	935	935	
5°	938	929	932	930	929	89
15°	903	895	903	903	902	255
25°	834	828	840	837	837	384
35°	733	732	745	739	739	459
45°	611	610	616	608	606	470
55°	468	462	462	454	454	417
65°	303	296	297	294	294	300
75°	131	137	145	146	146	141
85°	19	29	35	36	35	26
90°	1	5	9	11	11	3
95°	28	104	331	144	97	30
105°	92	143	567	864	813	97
115°	163	198	454	903	1029	161
125°	224	255	411	692	817	200
135°	270	300	399	564	636	209
145°	312	334	394	479	515	196
155°	352	365	392	430	443	162
165°	382	387	393	410	411	108
175°	396	397	394	399	398	38
180°	396	396	396	396	396	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	935.0	935.0	935.0	935.0	935.0
2.5°	940.6	932.5	935.0	932.9	929.5
5°	938.5	929.2	932.4	929.8	929.0
7.5°	931.7	922.4	926.7	925.0	924.1
10°	925.5	916.2	921.2	919.4	918.6
12.5°	917.2	908.6	914.3	912.5	912.4
15°	903.0	895.4	903.0	903.0	902.1
17.5°	885.2	878.2	886.4	886.9	886.4
20°	872.7	865.1	875.3	874.5	875.3
22.5°	857.5	851.2	862.1	859.9	860.8
25°	833.7	827.8	839.8	837.2	837.2
27.5°	805.7	801.5	814.5	811.8	811.8
30°	787.0	782.8	796.5	793.1	793.1
32.5°	766.2	763.3	776.4	772.3	772.3
35°	733.3	731.6	744.6	739.4	739.4
37.5°	699.4	697.9	709.6	703.3	701.3
40°	674.4	673.6	684.0	677.0	677.0
42.5°	649.5	648.7	657.6	649.3	649.3
45°	611.2	609.5	615.6	607.7	606.0
47.5°	569.5	567.8	571.6	563.1	562.2
50°	541.1	539.4	541.1	533.3	532.5
52.5°	512.0	509.0	509.2	501.5	501.3
55°	467.5	461.6	461.5	454.5	454.5
57.5°	420.4	412.6	413.3	407.4	406.6
60°	387.9	379.4	380.1	374.9	374.0
62.5°	356.0	346.2	348.2	342.3	342.2
65°	303.0	296.2	297.0	294.4	294.4
67.5°	252.1	245.8	250.4	248.3	248.1
70°	214.7	210.5	216.4	216.4	215.6
72.5°	180.1	179.9	187.4	187.4	187.9
75°	130.7	136.7	144.6	145.5	145.5
77.5°	87.3	97.8	106.5	106.8	106.7
80°	62.3	74.2	82.2	84.0	83.1
82.5°	42.2	54.8	61.5	63.2	62.3
85°	19.0	29.2	34.6	35.5	34.6
87.5°	5.8	12.6	15.6	16.1	14.8
90°	1.3	5.0	8.9	11.4	11.4
92.5°	11.4	52.0	90.3	38.8	32.8
95°	28.0	103.9	330.7	143.9	96.7
97.5°	46.3	114.7	507.0	394.5	277.0
100°	58.5	121.9	561.0	568.6	459.2
102.5°	70.7	129.2	575.2	703.3	606.8
105°	91.6	142.6	567.3	863.8	812.8
107.5°	113.2	158.2	534.5	946.7	960.9
110°	128.5	169.5	510.1	963.0	1024.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.7	180.8	485.7	949.5	1041.3
115°	162.8	197.6	454.1	903.4	1029.1
117.5°	182.7	216.0	434.0	838.2	979.7
120°	195.9	228.2	424.9	794.4	934.9
122.5°	207.1	239.4	418.7	750.5	886.1
125°	223.9	255.0	410.9	692.3	816.6
127.5°	238.9	269.7	406.5	648.1	754.8
130°	248.0	277.9	404.5	620.4	716.1
132.5°	257.2	287.1	402.5	596.7	681.5
135°	269.7	299.5	399.4	563.9	636.0
137.5°	283.2	310.3	397.9	534.9	595.6
140°	291.3	317.4	396.9	516.4	571.1
142.5°	299.4	323.6	395.9	502.0	547.7
145°	311.6	334.0	394.3	479.1	515.2
147.5°	325.4	344.5	393.1	461.1	489.5
150°	334.5	350.7	393.1	450.8	473.2
152.5°	341.7	355.8	392.0	441.6	460.0
155°	352.3	364.8	391.8	430.2	442.7
157.5°	362.8	372.5	391.8	422.5	432.0
160°	368.9	377.6	391.8	417.4	424.9
162.5°	375.0	381.7	392.8	413.3	418.7
165°	381.6	386.6	393.1	409.6	410.9
167.5°	388.5	391.0	394.3	405.3	406.3
170°	390.5	393.0	394.3	403.2	403.2
172.5°	392.5	394.0	394.3	401.2	401.2
175°	395.6	396.8	394.3	399.4	398.1
177.5°	396.6	396.6	393.6	397.6	395.6
180°	395.6	395.6	395.6	395.6	395.6

(END OF REPORT)